

LYRIC Rabbit pAb

LYRIC Rabbit pAb
Catalog # AP52289

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q86UE4
Reactivity	Human
Predicted	Rat, Pig, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63837
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AEG-1
Epitope Specificity	131-230/582
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Cell junction, tight junction. Nucleus, nucleolus . Cytoplasm, perinuclear region. Note=In epithelial cells, recruited to tight junctions (TJ) during the maturation of the TJ complexes. A nucleolar staining may be due to nuclear targeting of an isoform lacking the transmembrane domain. TNF-alpha causes translocation from the cytoplasm to the nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LYRIC is a type II membrane protein, the precise role of which has yet to be defined. It is expressed in breast and prostate carcinoma and is a potential mediator of lung metastasis. It has also been found in mouse Purkinje neurons and cerebellum. In epithelial cells it is recruited to tight junctions (TJ) during the maturation of the TJ complexes. LYRIC co-localizes with beta-catenin in normal and tumour tissues.

Additional Information

Gene ID	92140
Other Names	Protein LYRIC, 3D3/LYRIC, Astrocyte elevated gene-1 protein, AEG-1, Lysine-rich CEACAM1 co-isolated protein, Metadherin, Metastasis adhesion protein, MTDH, AEG1, LYRIC
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug /Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MTDH
Synonyms	AEG1, LYRIC
Function	Down-regulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance.
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Cell junction, tight junction Nucleus, nucleolus. Cytoplasm, perinuclear region Note=In epithelial cells, recruited to tight junctions (TJ) during the maturation of the TJ complexes. A nucleolar staining may be due to nuclear targeting of an isoform lacking the transmembrane domain (By similarity). TNF causes translocation from the cytoplasm to the nucleus.
Tissue Location	Widely expressed with highest levels in muscle- dominating organs such as skeletal muscle, heart, tongue and small intestine and in endocrine glands such as thyroid and adrenal gland Overexpressed in various cancers including breast, brain, prostate, melanoma and glioblastoma multiforme.

Background

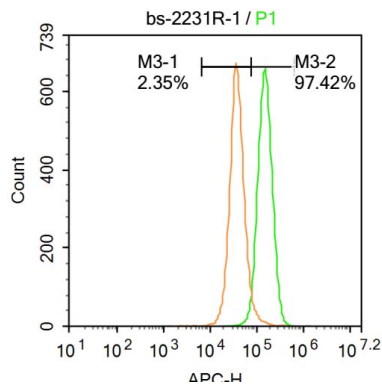
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

References

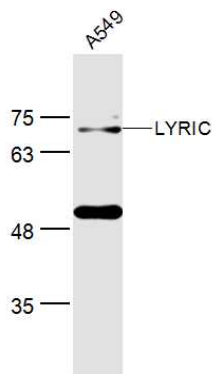
Sutherland H.G.E.,et al.Exp. Cell Res. 294:94-105(2004).
Britt D.E.,et al.Exp. Cell Res. 300:134-148(2004).
Kang D.-C.,et al.Gene 353:8-15(2005).
Liang Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images

Blank control:A431.
Primary Antibody (green line): Rabbit Anti-LYRIC antibody (AP52289)
Dilution: 1 µg /10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF647
Dilution: 1 µg /test.
Protocol



The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample:

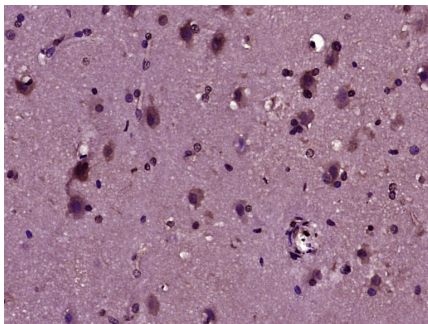
A549(Human) Lysate at 40 ug

Primary: Anti-LYRIC (AP52289) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kD

Observed band size: 64 kD



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LYRIC) Polyclonal Antibody, Unconjugated (AP52289) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.